

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

**Declass Review by
NIMA/DOD**

25X1

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

TOP SECRET

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

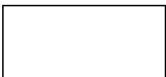
Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

RECORD COPY	COPY NO.	PUB. DATE	LOCATION	MASTER	DATE RECEIVED	LOCATION
DISPOSITION DATE(S)				STOCK LEVEL	MINIMUM	MAXIMUM
CUT TO COPIES 0				COPIES DESTROYED		
DATE 7-73		CUT TO COPIES		DATE		
DATE		CUT TO COPIES		DATE		
DATE		MASTER		DATE		

DATE			RECEIVED OR ISSUED	NUMBER OF COPIES			DATE			RECEIVED OR ISSUED	NUMBER OF COPIES		
MO.	DAY	YR.		REC'D	ISS'D	BAL	MO.	DAY	YR.		REC'D	ISS'D	BAL
5	5	67	Dist. Unit #106-115	10		10							
9	22	72	Dist # 106-115			0	W	K	6				

TITLE	NPIC	SEC. CLASS.	LOCATION
25X1	<div style="border: 1px solid black; width: 150px; height: 20px;"></div>	Apr 11 1967	TS/ <div style="border: 1px solid black; width: 30px; height: 20px;"></div> 34737
			25X1

25X1



Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

TOP SECRET

25X1

PHOTOGRAPHIC INTERPRETATION REPORT

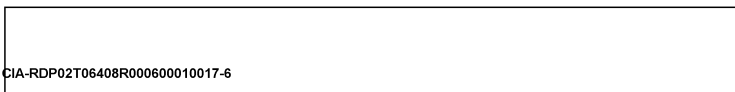
**CENTRAL INSTITUTE OF AVIATION
ENGINE-BUILDING (TsIAM)
MOSKVA, USSR**

APRIL 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6



25X1

25X1



INTRODUCTION

This report is a study of the chronological development of the Central Institute of Aviation Engine-Building imeni P. I. Baranov (hereafter referred to by the Russian acronym TsIAM). TsIAM (55-34N 037-56E; [redacted]) is located approximately 15.5 nautical miles (nm) southeast from the center of Moskva, USSR, and approximately 6 nautical miles west of the Central Aerohydrodynamic Institute (TsAGI) and the Flight Test Institute, both of which are near Ramenskoye. TsIAM is also situated near the Moscow/Myachkovo Airfield on the north bank of the Moskva River. Other transportation services include both major roads and rail lines (Figure 1).

The fenced area of TsIAM covers approximately 350 acres. The large housing and support area located along the northern perimeter fence has not been included in this report. A building-by-building construction history of TsIAM is presented graphically in Figure 2 and in tabular form in Table 1, which also contains chronological details and interpretations of the basic functions of all the structures; all item numbers refer to Figure 2 and Table 1. The information contained in this report has been compiled from all available photography up to and including [redacted] photography, the most recent photography of good interpretability (Figure 3).

TsIAM is the major air-breathing engine research, development, and test center of the Soviet aerospace industry. TsIAM has been operational for approximately 10 years. The initial emphasis was on the construction of the very large engine test building (item 90). Later construction has included the 2 very large aircraft engine test buildings (items 11 and 21).

HIGHLIGHTS OF THE CHRONOLOGICAL DEVELOPMENT OF TsIAM

1942

When observed on [redacted] photography of [redacted] the area now occupied by TsIAM consisted of a

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6
TOP SECRET

large open field. There were no buildings, structures, or construction activity evident.

1956

This area was not photographed again until [redacted] and by this time TsIAM was in an advanced stage of construction. Many of the facilities were probably already in partial operation. Major facilities included a very large engine test building (item 90), 2 large assembly/shop buildings (items 103 and 104), a steamplant (item 101), cooling towers (item 87), a large transformer yard (item 93), and most of the housing and support area. The interpretability of this photography precluded the identification of any structures which might have been in an early stage of construction.

1962

TsIAM was not photographed during the period from [redacted] to [redacted]. The first [redacted] photography in [redacted] was of very poor interpretability and could not be used. The first usable [redacted] photography, obtained in [redacted] was also of poor interpreta-

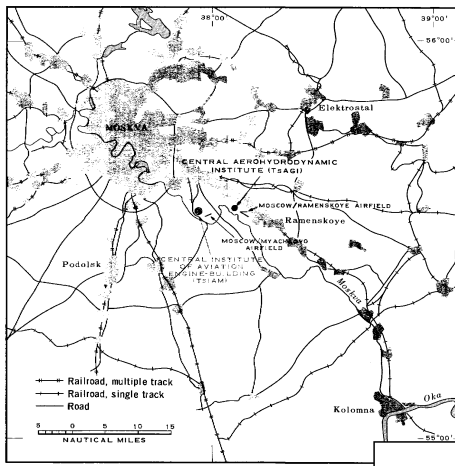


FIGURE 1. LOCATION MAP.

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6
TOP SECRET

25X1

25X1
25X1

25X1

25X1

25X1
25X1

25X1

25X1
25X1

25X1

25X1

25X1

25X1

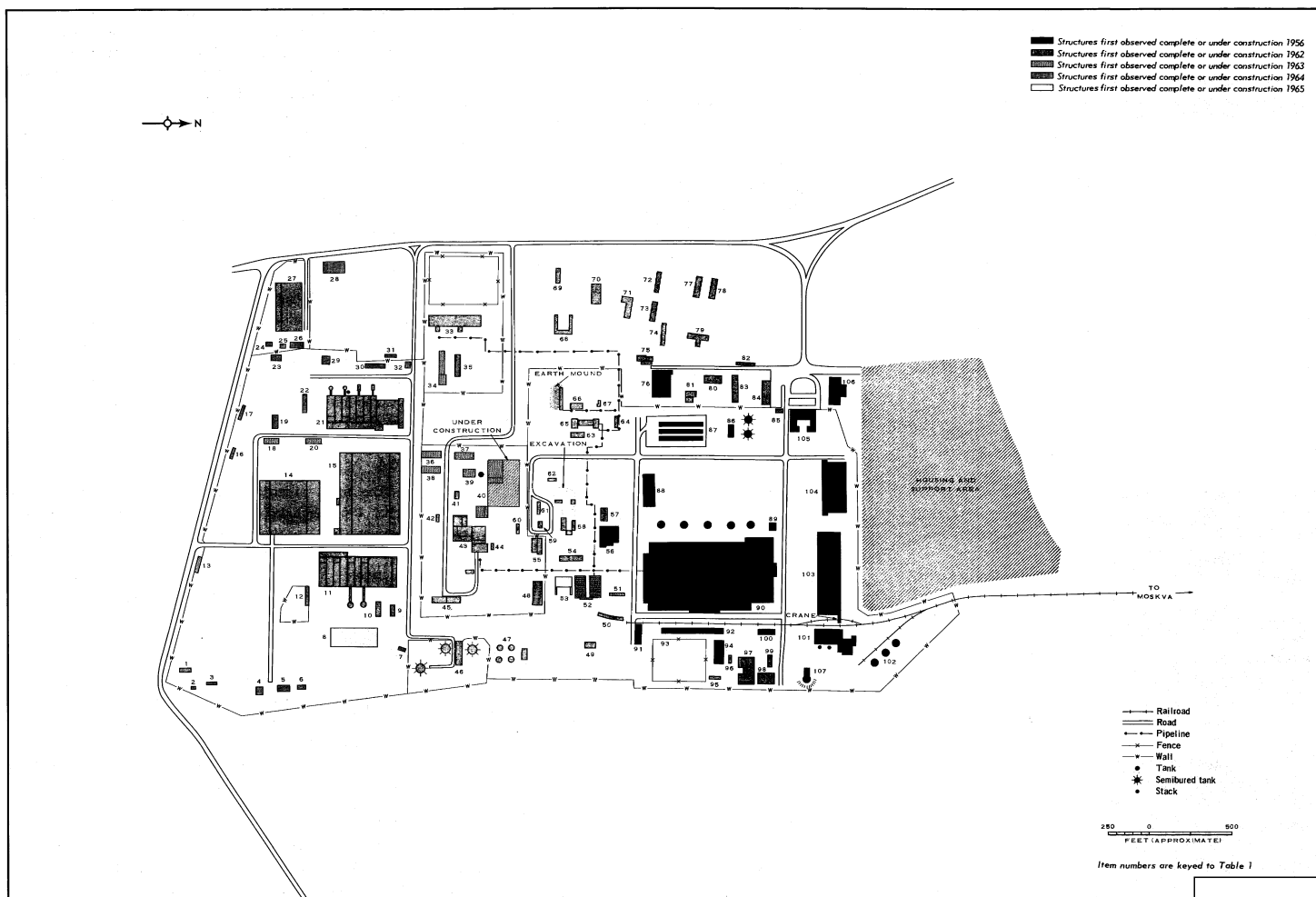
TOP SECRET
Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

FIGURE 2. LAYOUT OF TsIAM.

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

TOP SECRET

25X1

Table 1. Functions, Dimensions, Roof Cover, and Chronology of Structures at TsIAM, Moskva, USSR.
(Item numbers are keyed to Figure 2)

Item No	Probable Function	Dimensions (ft) Length Width	Roof Cover (sq ft)	Date First Observed	Comments	Item No	Probable Function	Dimensions (ft) Length Width	Roof Cover (sq ft)	Date First Observed	Comments
1	Utility bldg	50 40	2,000		Items 1-6 located in area of most recent construction activity	51	Utility bldg	100 20	2,000		
2	Utility bldg	20 20	400		See note 1	52	Pressure bottles	-- --	--		A total of 49 bottles (each 65 ft long & 8 ft in diam), aligned in a horizontal position in 2 rows of 2 tiers each, 12 bottles in a tier; 1 bottle positioned at end of the 2 rows
3	Utility bldg	65 25	1,625		See note 1						In a late stage of construction
4	Utility bldg	50 45	2,250		See note 1	53	Laboratory/admin bldg	100 60	6,000		
5	Utility bldg	80 40	3,200		See note 1	54	Utility bldg	140 40	5,600		
6	Utility bldg	60 25	1,500		See note 1	55	Utility bldg	Irregular	6,200		
7	Utility bldg	40 30	800		Approx 70% complete	56	Laboratory bldg	130 105	13,630		
8	Shop bldg, u/c	295 120	35,400			57	Utility bldg	80 55	4,400		
9	Utility bldg	75 25	1,875			58	Test Structure	Irregular	4,850		A large L-shaped excavation adjacent to item 58 contains a large open aircraft engine test stand
10	Utility bldg	90 40	3,600								
11	Aircraft engine test bldg	Irregular	96,775		Contains 4 large (180 x 45 ft each) L-type test cells; 2 equipped with noise suppressors approx 75 ft high & 45 ft in diam; suppressors for other 2 cells u/c	59	Utility bldg	35 30	1,050		
12	Utility bldg	125 20	2,500		Construction bldg, prob temporary	60	Utility bldg	55 20	1,100		
13	Security bldg	100 40	4,000		Control point for southern entrance	61	Utility bldg	80 25	2,000		
14	Assembly/shop bldg	375 350	131,250			62	Utility bldg	60 25	1,500		
15	Assembly/shop bldg	520 380	197,600		Construction bldg, prob temporary	63	Engine test bldg	95 35	3,325		
16	Utility bldg	65 15	975			64	Utility bldg	80 20	1,600		
17	Utility bldg	90 20	1,800		Construction bldg, prob temporary	65	Laboratory bldg	Irregular	8,400		
18	Utility bldg	95 45	4,275			66	Engine test bldg	70 40	2,800		
19	Utility bldg	95 30	2,850			67	Utility bldg	Irregular	775		
20	Utility bldg	95 45	4,275			68	Utility bldg	Irregular	6,200		
21	Aircraft engine test bldg	Irregular	90,425		Contains 4 large (160 x 45 ft each) L-type test cells; 2 equipped with noise suppressors approx 70 ft high & 20 ft in diam; suppressors for other 2 cells u/c	69	Utility bldg	100 35	3,500		
22	Utility bldg	115 30	3,450			70	Utility bldg	130 70	9,100		
23	Utility bldg	75 40	3,000			71	Utility bldg	Irregular	6,200		
24	Utility bldg	40 30	1,200			72	Utility bldg	130 35	4,550		
25	Utility bldg	35 25	875			73	Utility bldg	130 35	4,550		
26	Utility bldg	85 40	3,400			74	Utility bldg	140 30	4,200		
27	Shop bldg	310 155	48,050			75	Utility bldg	Irregular	4,500		
28	Shop bldg	115 70	8,050			76	Shop bldg	Irregular	20,375		
29	Utility bldg	60 50	3,000			77	Utility bldg	145 40	5,800		
30	Utility bldg	125 25	3,125			78	Utility bldg	130 45	5,850		
31	Utility bldg	75 25	1,875			79	Utility bldg	Irregular	4,725		
32	Security bldg	40 40	1,600			80	Admin bldg	110 55	6,050		Prob motor pool dispatch office
33	Compressor bldg	335 70	23,450		Control point for SW entrance	81	Utility bldg	Irregular	4,675		
34	Shop bldg	Irregular	7,425		Bldg served by very large transformer yard; 3 bus bars enter west side of bldg	82	Utility bldg	110 25	2,750		
35	Poss cooling towers, u/c	135 30	4,050			83	Maintenance bldg	170 35	5,950		Motor vehicle maintenance
36	Admin/engineering bldg	120 45	5,400		Early stage of construction	84	Admin bldg	145 45	6,525		
37	Utility bldg	120 40	4,800		Small multistory bldg	85	Security bldg	60 35	2,100		Control point for NW entrance (main entrance)
38	Utility bldg	120 50	6,000			86	Pumphouse	80 35	2,500		Two semiburied water tanks are adjacent to item 86
39	Utility bldg	75 55	4,125			87	Cooling towers	-- --	--		Thirty-three cooling towers, aligned in 3 rows of 11 each
40	Bldg u/c	-- --	--		Prob associated with tall stack nearby	88	Shop bldg	205 65	13,325		
41	Utility bldg	40 20	800		Early stage of construction precludes identification; does not appear to be a steamplant as previously identified	89	Utility bldg	45 45	2,025		
42	Utility bldg	40 15	600			90	Engine test bldg	Irregular	335,025		Contains test cells for atmospheric & environmental testing of aviation engines
43	Laboratory bldg	Irregular	28,025			91	Admin bldg	125 35	4,375		
44	Utility bldg	50 15	750			92	Warehouse	390 35	13,650		
45	Utility bldg	175 45	7,875			93	Transformer yard	-- --	--		
46	Semiburied water tanks	-- --	--			94	Transformer maintenance bldg	100 55	5,500		
47	Fuel storage area	-- --	--		At least 3 semiburied water tanks & a pumphouse, separately fenced	95	Utility bldg	75 25	1,875		
48	Shop bldg	150 60	9,000		Four POL tanks, each approx 35 ft in diam & a pumphouse, separately fenced	96	Utility bldg	50 20	1,000		
49	Utility bldg	65 35	2,275			97	Shop bldg	Irregular	15,950		
50	Warehouse	165 20	3,300			98	Shop bldg	120 70	8,400		
						99	Utility bldg	65 30	1,950		
						100	Utility bldg	80 35	2,800		
						101	Steamplant	Irregular	19,050		Three POL tanks, each approx 40 ft in diam, containing fuel for steamplant (item 101)
						102	Fuel storage	-- --	--		
						103	Assembly/shop bldg	505 160	80,800		
						104	Assembly/shop bldg	Irregular	47,250		
						105	Main admin bldg	Irregular	17,700		
						106	Admin bldg	Irregular	9,225		
						107	Fuel storage	-- --	--		

*Completion dates are not stated because of gaps in coverage; most of the small structures were apparently complete when first observed. When determinable, completion dates of major structures are presented in the text.

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

25X1

25X1

25X1

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

25X1

25X1



FIGURE 3. Tsiam.

- 4 -

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

TOP SECRET

25X1

25X1

25X1

25X1



Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

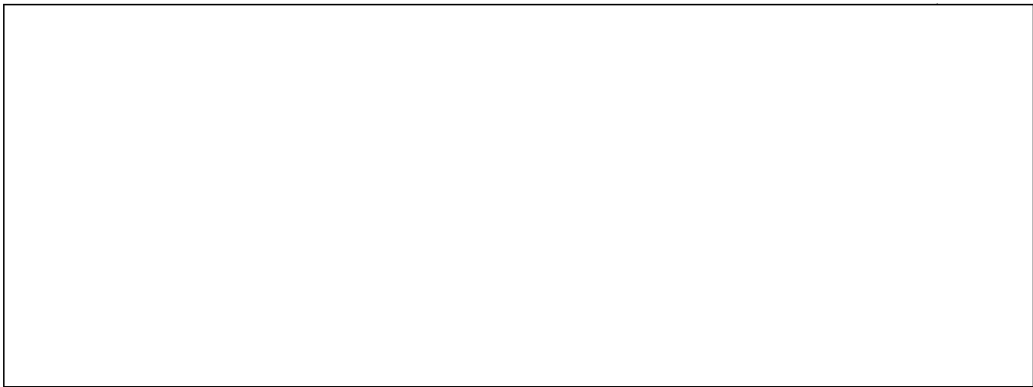
TOP SECRET

25X1



REFERENCES



25X1



MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENT

NPIC:  *Moscow/Myachkovo (TslAM) Engine Test Center, USSR, Dec 65* (TOP SECRET 

25X1

REQUIREMENT

CIA. C-DI5-82,973

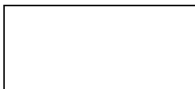
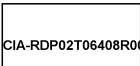
NPIC PROJECT

11212/66 (partial answer)

25X1

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6



25X1

25X1

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010017-6

TOP SECRET